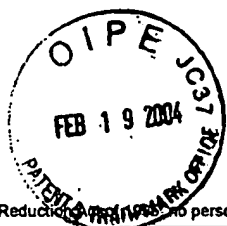


50005-50.GBC.263560



PTO/SB/08B (12/01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Project (PTO/SB/08B) no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		<i>Complete if Known</i>			
		Application Number	09/944,816		
		Filing Date	August 31, 2001		
		First Named Inventor	Jay W. Grate		
		Group Art Unit			
		Examiner Name			
Sheet	1	of	1	Attorney Docket Number	50005-50

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
		US-6,192,596 B1	02/27/2001	Bennett et al.	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published		
PTM		Chandler DP et al.; <u>Renewable microcolumns for solid-phase nucleic acid separations and analysis from environmental samples</u> ; <i>Trends in Analytical Chemistry</i> , Vol. 19, No. 5, 2000, pages 314-321.		
		Chandler DP et al.; <u>Automated immunomagnetic separation and microarray detection of <i>E. coli</i> O157:H7 from poultry carcass rinse</u> ; <i>International Journal of Food Microbiology</i> , Vol. 70, 2001, pages 143-154.		
		Chandler DP et al.; <u>Automated nucleic acid isolation and purification from soil extracts using renewable affinity microcolumns in a sequential injection system</u> ; <i>Talanta</i> Vol. 49, 1999, pages 969-983.		
PTM		Chandler DP et al.; <u>Automated nucleic acid isolation and purification from environmental samples with renewable affinity microcolumns in a microfluidic system</u> ; Abstracts of the General Meeting of the American Society for Microbiology; Chicago, IL, Vol. 99, 1999, page 496.		

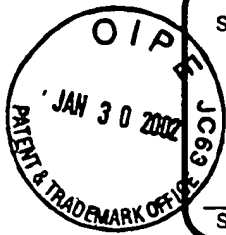
Examiner Signature		Date Considered	9/26/05
--------------------	--	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number



Substitute for form 1449A/PTO

**SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT**

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	09/944,816
Filing Date	August 31, 2001
First Named Inventor	Jay W. Grate
Group Art Unit	
Examiner Name	
Attorney Docket Number	50005-50

U.S. PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
PID		4,190,524	02/26/1980	Watson	
		4,208,277	06/17/1980	Lofthouse et al.	
		4,352,730	10/05/1982	Dijkhuis	
		4,375,407	03/01/1983	Kronick	
		4,664,796	05/12/1987	Graham et al.	
		5,106,491	04/21/1992	Schulze et al.	
		5,108,933	04/28/1992	Liberti et al.	
		5,128,043	07/07/1992	Wildermuth	
		5,200,084	04/06/1993	Liberti et al.	
		5,385,707	01/31/1995	Miltenyi et al.	
		5,405,752	04/11/1995	Nilsson	
		5,411,863	05/02/1995	Miltenyi	
		5,468,616	11/21/1995	Coulter et al.	
		5,541,072	07/30/1996	Wang et al.	
		5,543,289	08/06/1996	Miltenyi	
		5,567,326	10/22/1996	Ekenberg et al.	
PDP		5,601,988	02/11/1997	Gordon	
		5,616,250	04/01/1997	Johnson et al.	

RECEIVED
FEB 01 2001
TC 1700

Examiner Initials ¹	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ³ -Kind Code ³ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
PDP		GB 2,015,900	09/19/1979			
		EP 0,318,913	06/07/1989			
RDP		WO 00/25128	05/04/2000			
		WO 00/50175	08/31/2000			

Examiner
Signature

Date
Considered

9/26/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

**SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT**

(use as many sheets as necessary)

Sheet 2 of 3

Complete if Known

Application Number 09/944,816

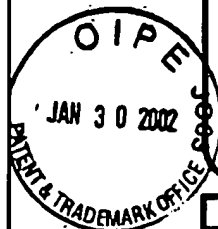
Filing Date August 31, 2001

First Named Inventor Jay W. Grate

Group Art Unit

Examiner Name

Attorney Docket Number 50005-50

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
PJD		5,622,831	04/22/1997	Liberti et al.	
		5,681,478	10/28/1997	Lea et al.	
		5,693,539	12/02/1997	Miltenyi et al.	
		5,698,271	12/16/1997	Liberti et al.	
		5,702,950	12/30/1997	Tajima	
		5,711,871	01/27/1998	Miltenyi	
		5,728,303	03/17/1998	Johnson	
		5,814,468	09/29/1998	Siiman et al.	
		5,876,593	03/02/1999	Liberti et al.	
		5,922,284	07/13/1999	Kinoshita et al.	
		5,925,573	07/20/1999	Colin et al.	
		5,972,721	10/26/1999	Bruno et al.	
		5,993,740	11/30/1999	Niiyama et al.	
		6,020,210	02/01/2000	Miltenyi	
		6,143,577	11/07/2000	Bisconte Sconte De Saint Julien	
		6,159,378	12/12/2000	Holman et al.	
		6,174,667	01/16/2001	Huchzemeier et al.	
		6,258,607	07/10/2001	Saito et al.	
PJD		2001/0008217	07/19/2001	Watkins et al.	

RECEIVED
FEB 01 2002
TC 1700

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner Signature

Date Considered

9/26/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 3 of 3

Complete if Known

Application Number	09/944,816
Filing Date	August 31, 2001
First Named Inventor	Jay W. Grate
Group Art Unit	
Examiner Name	
Attorney Docket Number	50005-50

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published	†
P101		Egorov O and Ruzicka J; <u>Flow Injection Renewable Fibre Optic Sensor System. Principle and Validation on Spectrophotometry of Chromium (VI)</u> , Analyst, Vol. 120, July 1995, pgs. 1959-1962.	
		Grate JW, Strebin R, Janata J; <u>Automated Analysis of Radionuclides in Nuclear Waste: Rapid Determination of ⁹⁰Sr by Sequential Injection Analysis</u> ; Analytical Chemistry, Vol. 68, No. 2, January 15, 1996, pgs. 333-340.	
		Holman DA, Christian GD, Ruzicka J; <u>Titration without Mixing or Dilution: Sequential Injection of Chemical Sensing Membranes</u> ; Analytical Chemistry, Vol. 69, No. 9, May 1997, pgs. 1763-1765.	
		Mayer M and Ruzicka J; <u>Flow Injection Based Renewable Electrochemical Sensor System</u> ; Analytical Chemistry, Vol. 68, No. 21, November 1, 1996, pgs. 3808-3814.	
		Pollema, CH and Ruzicka J; <u>Flow Injection Renewable Surface Immunoassay: A New Approach to Immunoanalysis with Fluorescence Detection</u> ; Analytical Chemistry, Vol. 66, No. 11, June 1, 1994, pgs. 1825-1831.	
		Pollema CH, Ruzicka J, and Christian GC; <u>Sequential Injection Immunoassay Utilizing Immunomagnetic Beads</u> ; Analytical Chemistry, Vol. 64, No. 13, July 1, 1992, pgs. 1356-1361.	
		Ruzicka J, Pollema CH, and Scudder KM; <u>Jet ring Cell: A Tool for Flow Injection Spectroscopy and Microscopy on a Renewable Solid Support</u> ; University of Washington, October 7, 1993.	
		Ruzicka J; <u>Discovering Flow Injection: Journey From Sample to a Live Cell and From Solution to Suspension</u> ; Analyst, Vol. 119, September 1994, pgs. 1925-1934.	
		Ruzicka J and Ivaska A; <u>Bioligand Interaction Assay by Flow Injection Absorptiometry</u> ; Analytical Chemistry, Vol. 69, No. 24, December 15, 1997, pgs. 5024-5030.	
		Solé, S, Alegret S, Céspedes F, and Fàbregas E; <u>Flow Injection Immunoanalysis Based on a Magnetoimmunosensor System</u> ; Analytical Chemistry, Vol. 70, No. 8, April 15, 1998, pgs. 1462-1467.	
		Willumsen B, Christian GD, and Ruzicka J; <u>Flow Injection Renewable Surface Immunoassay for Real Time Monitoring of Biospecific Interactions</u> ; Analytical Chemistry, Vol. 69, No. 17, September 1, 1997, pgs. 3482-3489.	
		Radbruch, Andreas, <u>Cell Separation Methods and Applications</u> ; Marcel Dekker, Inc, New York, pages 192-195, pgs. 192-195.	

Examiner
SignatureDate
Considered

9/26/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.